

one inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot  
one thirty second inch = one foot  
one sixteenth inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
one inch = one foot

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	SIZE
	WATER METER	----	----	SEE NOTE #10, #11
	POINT OF CONNECTION	----	----	SEE NOTE #5, #14
	QUICK COUPLING VALVE W/KEY AT SHIVEL W/ BRASS ANGLE VALVE	RAINBIRD CHAMPION	44 NP-LRG	1" SIZE AS PER LINE
	BACKFLOW PREVENTER	FEBCO	825 YA	SIZE AS PER LINE
	REMOTE CONTROL VALVE (DRIP) W/ FILTER BASKET & BALL VALVE	HUNTER SALCO	HBV REV-F-100-NE	SIZE AS NOTED 1"
	PRESSURE REDUCING VALVE	SENNINGER	MEDIUM FLOW	1"
	PRESSURE REDUCING VALVE	SENNINGER	LOW FLOW (LESS THAN 2 GPM)	1"
	BRONZE BALL VALVE (1-1/2" OR SMALLER)	NIBCO OR MILWAUKEE	----	SIZE AS PER LINE
	CAST IRON GATE VALVE (2" AND LARGER)	NIBCO OR MILWAUKEE	----	SIZE AS PER LINE
	IRRIGATION CONTROLLERS	RAINMASTER	EVOLUTION DX48-SPEED-FLOW-PH	
	IRRIGATION CONTROLLERS	HUNTER	XC-400	
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	PULSE OUTPUT TRANSMITTER (WALL MOUNT) DECODER (INSTALL IN SEPARATE STAINLESS STEEL CONTROLLER)	DATA INDUSTRIAL RAINBIRD	1500 SERIES DEC-PUL	SEE NOTE #6 SEE NOTE #6
	BRASS MASTER VALVE	SUPERIOR CONTROLS	3200ST-3" (HIGH FLOW) 3300ST-1 1/2" (LOW FLOW)	SIZE AS PER LINE
	FLOW METER/SENSOR W/ MOUNTING SADDLE	DATA INDUSTRIAL ROMAC INDUSTRIES, INC.	IR-220B 2" NTP	SIZE AS PER LINE
	MODEM	RAINMASTER	----	CONTRACTOR TO COORDINATE WITH ELECTRICAL FOR POWER AND ETHERNET MODEM CONNECTIONS
	(2) EXISTING SLEEVES UNDER PAVEMENT	----	----	3"
	SLEEVING UNDER PAVED AREAS	----	----	SEE NOTE #3
	PVC MAINLINE	----	SCHEDULE 40 C900	3" AND SMALLER 4" AND LARGER
	PVC LATERAL LINE	----	SCHEDULE 40	1" UNLESS OTHERWISE NOTED ON DRAWINGS.
	PVC LATERAL LINE (TREES)	----	SCHEDULE 40	1" UNLESS OTHERWISE NOTED ON DRAWINGS.
	INLINE EMITTER TUBING	HUNTER	FLD10102	
	FLEXIBLE TUBING	SALCO	----	1/2" IPS
	SHRUB EMITTER	SALCO	PSTD-1, PSTD-2	
	IRRIGATION CONTROLLER			
	1" TURF VALVE TYPE VALVE SIZE			

EMITTER SCHEDULE

PLANT SIZE	GPH/GPM	QTY.	EMITTER	MANUFACTURER
PALMS	8 GPH	4' LENGTH	TLDL-1	NETAFIM
2"-3" CALIFER	10 GPH	5	PSTD-2	SALCO
15 GAL	2 GPH	2	PSTD-2	SALCO
5 GAL	2 GPH	2	PSTD-1	SALCO

IRRIGATION EQUIPMENT LISTED IN SCHEDULE ARE PROVIDED AS GENERAL PRE-APPROVED MANUFACTURE/MODELS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR PERFORMANCE REQUIREMENTS.

IRRIGATION NOTES

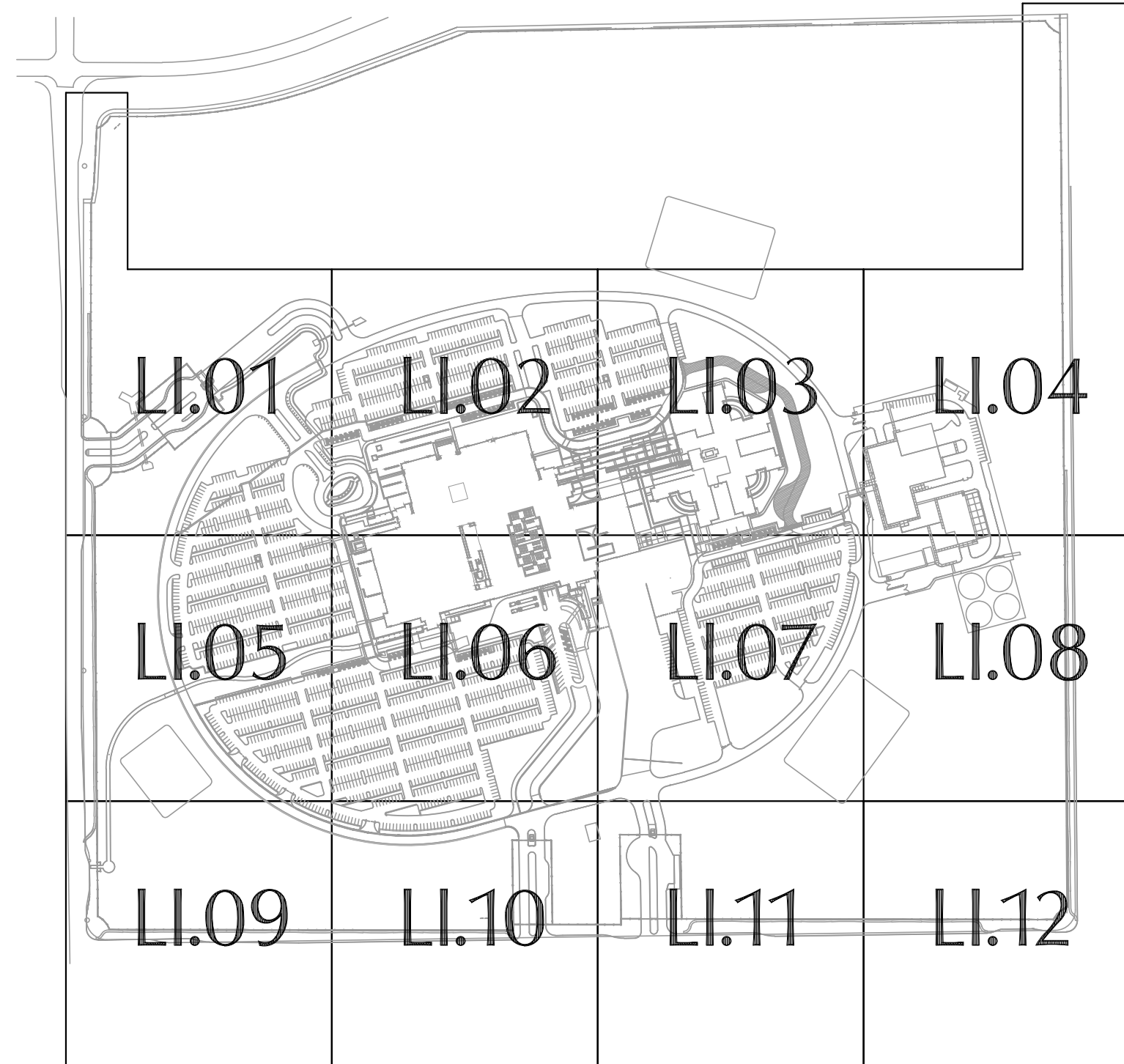
- THE IRRIGATION PLAN IS A SCHEMATIC DRAWING. ALL IRRIGATION COMPONENTS ARE TO BE INSTALLED IN PLANTING AREAS.
- VALVE BOXES TO BE PERMANENTLY MARKED WITH CONTROLLER LETTER & STATION. VALVE BOXES TO HAVE LOCKING CAPABILITY AND BE LOCKED, SEE SPECIFICATIONS. VALVE BOXES IN PLANTING BEDS ARE TO BE TAN IN COLOR.
- INSTALL SLEEVING BASED ON THE SIZING GUIDE BELOW:  

PIPE SIZE	REQUIRED SLEEVING
4" PVC PIPE	1 - 8" CLASS 200 PVC SLEEVE
3" PVC PIPE	1 - 6" CLASS 200 PVC SLEEVE
2" PVC PIPE	1 - 4" SCH 40 PVC SLEEVE
1 1/2" PVC LATERAL	1 - 4" SCH 40 PVC SLEEVE
3/4" TO 1 1/4" PVC LATERAL	1 - 2" SCH 40 PVC SLEEVE

WIRE QUANTITY	REQUIRED SLEEVING
1 - 25 CONTROL WIRES	1 - 2" SCH 40 PVC SLEEVE
26 - 50 CONTROL WIRES	2 - 2" SCH 40 PVC SLEEVE
- CONTRACTOR TO PROVIDE ALL NECESSARY SLEEVING UNDER ROADS, CONCRETE SLABS, ETC..
- COORDINATE WITH CIVIL DRAWINGS FOR POINT OF CONNECTION
- LOCATE ONE (1) PULSE TRANSMITTER AND ONE (1) DECODER EACH FOR THE CONTROLLERS IN AN INDEPENDENT CONTROL BOX. CONTRACTOR IS RESPONSIBLE FOR ALL POWER EQUIPMENT AND CONNECTIONS (AC/DC). ONE DECODER AND ONE TRANSMITTER PER FLOW SENSOR.
- SOME IRRIGATION COMPONENTS ARE SHOWN WITHIN HARDSCAPE AREAS FOR CLARITY OF DRAWING. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL IRRIGATION COMPONENTS AND ANGLED LINE UNIONS IN PLANTING AREAS.
- PHONE AND POWER SUPPLY TO BE HARDWIRED TO ALL IRRIGATION CONTROLLERS TYP.
- THE IRRIGATION CONTRACTOR IS TO COORDINATE THE (PC) POINT OF CONNECTION FOR THE IRRIGATION SYSTEM. THE (PC) STARTS AT THE STUB OUT POINT OF THE IRRIGATION FEED LINE FROM THE BACKFLOW.
- EXISTING 1" WATER METER TO BE USED FOR LANDSCAPE IRRIGATION AFTER IT HAS BEEN DISCONNECTED FROM CENTRAL PLANT BUILDING.
- CONTRACTOR TO PROVIDE NEW 2" METER TO TIE INTO EXISTING ON SITE WATER LINE. WATER SUPPLY FROM EXISTING 1" METER TIE IN AND NEW 2" METER ARE TO BE THE DESIGNATED POINTS OF CONNECTION FOR THE IRRIGATION MAINLINE LOOP SYSTEM.
- ALL QUICK COUPLER VALVES ARE TO BE 18 INCHES AWAY FROM CHAIN LINK FENCES, CURBING AND SIDEWALKS. TYPICAL FOR ALL QUICK COUPLERS.
- AIR VACUUM IS TO BE LOCATED AT THE HIGHEST ELEVATION POINT ALONG THE MAINLINE.
- THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE AT THE POINT OF CONNECTION AND MAKE FINAL CONNECTIONS ALLOWING FOR ANY POSSIBLE DEVIATIONS FROM LOCATION SHOWN ON PLANS DUE TO SITE CONDITIONS. ANY DEVIATIONS FROM THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- NET TAPS ARE TO BE CONSTRUCTED IN CONFORMANCE WITH VA SANITARY DESIGN GUIDELINES AND APPLICABLE UDACS PLATE STANDARDS
- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.

CLIN 0003  
REMOVE AND ADJUST AS REQUIRED ALL IRRIGATION VALVES, LATERAL LINES, FLEXIBLE TUBING, WIRES, EMITTERS, ETC. WHICH IRRIGATE PLANT MATERIAL WITHIN THE DEDUCTIVE ALTERNATE CLIN 0003 LIMITS. ALL MAINLINE LOOP ROUTING AND ISOLATION VALVES TO REMAIN AS SHOWN IN BASE BID. CONTRACTOR TO SEE SHEET LS048 FOR LIMITS OF DEDUCTIVE ALTERNATE CLIN 0003.



KEY MAP



Call before you OVERHEAD 1-702-593-6111  
Call before you Dig. 1-800-227-2600

FULLY SPRINKLERED

<b>CONSULTANTS:</b>		<b>KEY PLAN</b>		<b>ARCHITECT/ENGINEERS:</b>		<b>Drawing Title</b> LANDSCAPE IRRIGATION SCHEDULE AND NOTES Scale: N/A		<b>Project Title</b> New VA Medical Center Phase IV		<b>Project Number</b> 593-202	
CIVIL: G.C. WALLACE, INC., 1555 RAINBOW BLVD., LAS VEGAS, NV 89146 MEP: SYSKA HENNESSY GROUP, 11500 W. OLYMPIC BLVD. SUITE 680, LOS ANGELES, CA 90064 LIFE SAFETY: LASALLE ENGINEERING, LLC, 630 FITZWATERTOWN RD. SUITE A1, WILLOW GROVE, PA 19090 MEDICAL EQUIP. PLANNING: RTKL HEALTHCARE TECHNOLOGIES, 1250 CONNECTICUT AVE., NW, WASHINGTON, DC 20036 STRUCTURAL: DEGENKOLB ENGINEERING, 235 MONTGOMERY STREET, SUITE 500, SAN FRANCISCO, CA 94104 FOOD SERVICE: CULINARY ADVISORS, 3754 CROSSBOW CT., BELLCOTT CITY, MD 21042 GEOTECHNICAL: NINYO AND MOORE, 3155 E. PATRICK LANE, SUITE 12, LAS VEGAS, NV 89120 TELECOM SECURITY: RTKL SPECIAL SYSTEMS GROUP, 1250 CONNECTICUT AVE., NW, WASHINGTON, DC 20036 VERTICAL TRANSPORTATION: SYSKA HENNESSY GROUP, 425 CALIFORNIA STREET, SUITE 700, SAN FRANCISCO, CA 94104 MATERIALS MANAGEMENT:				 JMA ARCHITECTURE STUDIOS A Joint Venture		Approved: Project Director 		Location North Las Vegas, NV		Building Number 1	
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